

Technical Service Bulletin 090701

IOX to DCX Transmitter Conversion Considerations

The following is to provide customers and others with some general information on analog IOX transmitter systems being considered for digital DCX transmitter conversion. Because each conversion is unique, a quote is typically formulated by our sales department on a per item basis. However, there are basic considerations to be aware of when contemplating a conversion.

- The exciter requires replacement
- The class A driver amplifiers are replaced with class AB amplifiers
- The System controller/PLC may require new programming
- Power metering for both system and HPA requires upgrading

Depending on power level and channel, the following may also be required:

- The combiner and driver power supply may need to be replaced
- Additional driver amplifiers may be required
- The IOT, output stack, plumbing, and cavity blowers may need to be replaced
- Frequency dependent components, such as filters, tuners, couplers, and cavities may need to be replaced or retuned. Even if the transmitter is going to be operating on the same channel as it had during analog service, these components may need to be replaced
- HPA controller CPU and front panel may need to be changed out for updated code

HPAs with the old style HPA controller containing two rows of red and green LEDs **cannot** be used for digital service. Please see our Product Accessory Catalog item: *408578-01 HPA Controller Retrofit*, which is located on our customer service website (www.comarktv.com).

Additional upgrades may be needed to use to the Tx View (formerly ThalesView/WebGUI) monitoring software, or you may consider upgrading to a DCX Millennium style transmitter.

Providing technical support for conversion, re-installation, or re-commissioning performed by personnel other than Comark, or their designee, MAY be billable.

Again, this is just general information. If you have an IOX transmitter that you wish to convert to digital operation, please contact your Comark sales representative.

Note: Analog transmitters built prior to the IOX model are not upgradeable to digital service. Please refer to *Technical Service Bulletin 090623* located in the *S-series IOT & Klystron* section of the Customer Service Bulletins page of our website for further details.



At Comark, we are constantly striving to improve the satisfaction of both our new and existing customers. Please do not hesitate to contact Comark Customer Service with any questions you may have concerning the contents of this service bulletin.

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